

## CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: US/10/702,676  
Filing Date: 11/6/03  
Date Processed by STIC: 11/18/03

STIC Contact: Mark Spencer: Telephone: 703-308-4212; Fax: 703-308-4221  
Effective 12/13/03: Telephone: 571-272-2510; Fax: 571-273-0221

### Nature of Problem:

The CRF (was):

- ☐ (circle one) Damaged or Unreadable (for Unreadable, see attached)
- ☐ Blank (no files on CRF) (see attached)
- ☐ Empty file (filename present, but no bytes in file) (see attached)
- ☐ Virus-infected. Virus name: \_\_\_\_\_ The STIC will not process the CRF.
- ☐ Not saved in ASCII text
- ☐ Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should **only** be the Sequence Listing.
- ☒ Did not contain a Sequence Listing. (see attached sample)

Other:

NON-ASCII characters appeared in submitted file. This could indicate a bad disk sector

PLEASE USE THE CHECKER VERSION 4.1 PROGRAM TO REDUCE ERRORS.  
SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

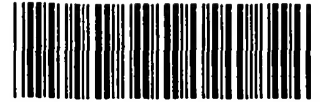
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



II

## RAW SEQUENCE LISTING

DATE: 11/18/2003

PATENT APPLICATION: US/10/702,676

TIME: 15:26:42

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\11182003\J702676.raw

3 <110> APPLICANT: LU, YI  
 4 LI, JING  
 6 <120> TITLE OF INVENTION: NUCLEIC ACID ENZYME BIOSENSORS FOR IONS  
 8 <130> FILE REFERENCE: 10322/6  
 > 10 <140> CURRENT APPLICATION NUMBER: US/10/702,676  
 > 12 <141> CURRENT FILING DATE: 2003-11-06  
 > 12 <160> NUMBER OF SEQ ID NOS: 84  
 14 <170> SOFTWARE: PatentIn Ver. 2.1

*P.1*  
**Does Not Comply**  
**Corrected Diskette Needed**

## CORED SEQUENCES

1113 <210> SEQ ID NO: 83  
 1114 <211> LENGTH: 107  
 1115 <212> TYPE: DNA  
 1116 <213> ORGANISM: Artificial Sequence  
 1118 <220> FEATURE:  
 1119 <223> OTHER INFORMATION: Description of Artificial Sequence: Predicted  
 1120 secondary structure of the G3 deoxyribozyme  
 1122 <220> FEATURE:  
 1123 <221> NAME/KEY: modified\_base  
 1124 <222> LOCATION: (67)  
 1125 <223> OTHER INFORMATION: variable nucleotide  
 1127 <220> FEATURE:  
 1128 <221> NAME/KEY: modified\_base  
 1129 <222> LOCATION: (69)..(74)  
 1130 <223> OTHER INFORMATION:  
 1131 var??  
 1132 ???sequence  
 1134 <220> FEATURE:  
 1135 <223> OTHER INFORMATION: Description of Artificial Sequence: Co-DNA  
 > 1137 <400> SEQUENCE: 84  
 > 1138 cactatagga agagatggcg acatctcttg acccaagaag  
 > 1139 ggggt??  
 > 1140 ???  
 > 1142 ?????????????????  
 > 1148 23129464/v1

*non-ASCII  
 character*



## VERIFICATION SUMMARY

DATE: 11/18/2003

PATENT APPLICATION: US/10/702,676

TIME: 15:26:43

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\11182003\J702676.raw

0 M:270 C: Current Application Number differs, Replaced Current Application Number  
2 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
00 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
05 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
41 Repeated in SeqNo=12  
137 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:83 differs:84  
138 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:40 SEQ:83  
139 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1  
140 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84  
140 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1  
142 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84  
142 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1  
148 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84  
54 Repeated in SeqNo=83  
148 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9  
148 M:252 E: No. of Seq. differs, <211> LENGTH:Input:107 Found:42 SEQ:83  
2 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (84) Counted (83)